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FILE 'HOME' ENTERED AT 17:03:22 ON 29 SEP 2003

=> file .jacob  
COST IN U.S. DOLLARS  
SINCE FILE  
ENTRY  
TOTAL  
SESSION  
0.21  
0.21  
FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 17:03:30 ON 29 SEP 2003  
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FILE 'EMBASE' ENTERED AT 17:03:30 ON 29 SEP 2003  
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FILE 'USPATFULL' ENTERED AT 17:03:30 ON 29 SEP 2003  
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-> fluores?(P) (signal or intensity or ratio or change or alter or distribution) (P) (cytoplasm(4A)membrane) (P)cell  
L1 109 FILE CAPLUS  
L2 103 FILE BIOSIS  
L3 93 FILE MEDLINE  
L4 91 FILE EMBASE

L6 495 FLUORES? (P) (SIGNAL OR INTENSITY OR RATIO OR CHANGE OR ALTER OR  
DISTRIBUTION) (P) (CYTOPLASM(4A), MEMBRANE) (P) CELL

```
=> cytoplasm(3A) membrane
L7      2836 FILE CAPLUS
L8      3155 FILE BIOSIS
L9      2085 FILE MEDLINE
L10     1940 FILE EMBASE
L11     1317 FILE USPATEFULL
```

TOTAL FOR ALL FILES  
L12 11333 CYTOPLASM (3A) MEMBRANE

```
=> 16 and 112
L13          90 FILE CAPLUS
L14          87 FILE BIOSIS
L15          75 FILE MEDLINE
L16          73 FILE EMBASE
L17          92 FILE USPATFULL
```

**TOTAL FOR ALL FILES**

L18 417 L6 AND L12

```
=> l18 and translocat?  
L19          17 FILE CAPLUS  
L20          15 FILE BIOSIS  
L21          15 FILE MEDLINE  
L22          13 FILE EMBASE  
L23          37 FILE USPATFULL
```

**TOTAL FOR ALL FILES**

L24 97 L18 AND TRANSLOCAT?

=> l24 and GTP  
L25 0 FILE CAPLUS  
L26 0 FILE BIOSIS  
L27 2 FILE MEDLINE  
L28 0 FILE EMBASE  
L29 14 FILE USPATFULL

TOTAL FOR ALL FILES

L30 16 L24 AND GTP

=> dup rem  
ENTER L# LIST OR (END):130  
PROCESSING COMPLETED FOR L30  
L31 16 DUP REM L30 (0 DUPLICATES REMOVED)

=> d l31 ibib abs total

L31 ANSWER 1 OF 16 USPATFULL on STN  
ACCESSION NUMBER: 2003:244199 USPATFULL  
TITLE: Use of specific T2R taste receptors to identify  
compounds that block bitter taste  
INVENTOR(S): Pronin, Alexey, San Diego, CA, UNITED STATES  
Connor, Judy, Vista, CA, UNITED STATES  
Tang, Huixian, San Diego, CA, UNITED STATES  
Keung, Walter, San Diego, CA, UNITED STATES  
Servant, Guy, San Diego, CA, UNITED STATES  
Adler, Jon, San Diego, CA, UNITED STATES  
O'Connell, Shawn, San Diego, CA, UNITED STATES  
Brust, Paul, San Diego, CA, UNITED STATES  
PATENT ASSIGNEE(S): Senomyx, Inc., La Jolla, CA, 92037 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003170608	A1	20030911
APPLICATION INFO.:	US 2002-191058	A1	20020710 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-303811P	20010710 (60)
	US 2002-372089P	20020415 (60)

DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: Pillsbury Winthrop LLP, Intellectual Property Group,  
1600 Tysons Boulevard, McLean, VA, 22102

NUMBER OF CLAIMS: 116

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 6 Drawing Page(s)

LINE COUNT: 2491

AB Assays for identifying compounds that modulate, preferably inhibit  
bitter taste associated with the activation of hT2R4, hT2R44 and/or  
hT2R61 are provided. The compounds identified according to these assays  
should modulate, e.g., inhibit bitter taste associated with bitter  
tasting compounds including quinine, 6-nitrosaccharin, saccharin and/or  
denatonium. These compounds are useful additives for foods, beverages or  
medicinal preparations having a bitter taste.

L31 ANSWER 2 OF 16 USPATFULL on STN

ACCESSION NUMBER: 2003:237980 USPATFULL  
TITLE: Mammalian sweet and amino acid heterodimeric taste  
receptors  
INVENTOR(S): Zuker, Charles S., San Diego, CA, UNITED STATES

**PATENT ASSIGNEE(S) :**

Chandrashekhar, Jayaram, San Diego, CA, UNITED STATES  
Nelson, Greg, San Diego, CA, UNITED STATES  
Zhang, Yifeng, LaJolla, CA, UNITED STATES  
Ryba, Nicholas J.P., Bethesda, MD, UNITED STATES  
Hoon, Mark A., Kensington, MD, UNITED STATES  
The Regents of the University of California (U.S. corporation)

NUMBER	KIND	DATE
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**PATENT INFORMATION:**

US 2003166137 A1 20030904

**APPLICATION INFO.:**

US 2002-190417 A1 20020703 (10)

**RELATED APPLN. INFO.:**

Continuation-in-part of Ser. No. US 2001-927315, filed on 10 Aug 2001, PENDING

NUMBER	DATE
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**PRIORITY INFORMATION:**

US 2002-358925P 20020222 (60)

US 2001-302898P 20010703 (60)

**DOCUMENT TYPE:**

Utility

**FILE SEGMENT:**

APPLICATION

**LEGAL REPRESENTATIVE:**

TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH FLOOR, SAN FRANCISCO, CA, 94111-3834

**NUMBER OF CLAIMS:**

81

**EXEMPLARY CLAIM:**

1

**NUMBER OF DRAWINGS:**

20 Drawing Page(s)

**LINE COUNT:**

4203

**AB** The present invention provides isolated nucleic acid and amino acid sequences of sweet or amino acid taste receptors comprising two heterologous G-protein coupled receptor polypeptides from the T1R family of sensory G-protein coupled receptors, antibodies to such receptors, methods of detecting such nucleic acids and receptors, and methods of screening for modulators of sweet and amino acid taste receptors.

L31 ANSWER 3 OF 16 USPATFULL on STN

ACCESSION NUMBER: 2003:140481 USPATFULL

TITLE: System for cell-based screening

INVENTOR(S): Giuliano, Kenneth, Pittsburgh, PA, UNITED STATES

Kapur, Ravi, Gibsonia, PA, UNITED STATES

PATENT ASSIGNEE(S): Cellomics, Inc., Pittsburgh, PA, UNITED STATES (U.S. corporation)

NUMBER	KIND	DATE
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**PATENT INFORMATION:**

US 2003096322 A1 20030522

**APPLICATION INFO.:**

US 2002-100957 A1 20020319 (10)

**RELATED APPLN. INFO.:**

Continuation of Ser. No. US 2000-513783, filed on 25 Feb 2000, GRANTED, Pat. No. US 6416959 Continuation of Ser. No. US 1999-430656, filed on 29 Oct 1999, PENDING Continuation of Ser. No. US 1999-398965, filed on 17 Sep 1999, ABANDONED Continuation-in-part of Ser. No. US 1999-352171, filed on 12 Jul 1999, PENDING Continuation-in-part of Ser. No. US 1998-31271, filed on 27 Feb 1998, PENDING Continuation-in-part of Ser. No. US 1997-810983, filed on 27 Feb 1997, GRANTED, Pat. No. US 5989835

NUMBER	DATE
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**PRIORITY INFORMATION:**

US 1999-122152P 19990226 (60)

US 1999-123399P 19990308 (60)

US 1999-151797P 19990831 (60)

US 1999-168408P 19991201 (60)

DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: MCDONNELL BOEHNEN HULBERT & BERGHOFF, 300 SOUTH WACKER DRIVE, SUITE 3200, CHICAGO, IL, 60606  
NUMBER OF CLAIMS: 20  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 49 Drawing Page(s)  
LINE COUNT: 5201  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides systems, methods, screens, reagents and kits for optical system analysis of cells to rapidly determine the distribution, environment, or activity of fluorescently labeled reporter molecules in cells for the purpose of screening large numbers of compounds for those that specifically affect particular biological functions.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L31 ANSWER 4 OF 16 USPATFULL on STN  
ACCESSION NUMBER: 2003:127844 USPATFULL  
TITLE: Human olfactory receptors and genes encoding same  
INVENTOR(S): Zozulya, Sergey, San Diego, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003088059	A1	20030508
APPLICATION INFO.:	US 2001-804291	A1	20010313 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-188914P	20000313 (60)
	US 2000-192033P	20000324 (60)
	US 2000-198474P	20000414 (60)
	US 2000-199335P	20000424 (60)
	US 2000-207702P	20000526 (60)
	US 2000-213849P	20000623 (60)
	US 2000-226534P	20000816 (60)
	US 2000-230732P	20000907 (60)
	US 2001-266862P	20010207 (60)

DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: Pillsbury Winthrop LLP, Intellectual Property Group, East Tower, Ninth Floor, 1100 New York Avenue, N.W., Washington, DC, 20005-3918

NUMBER OF CLAIMS: 124  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 22 Drawing Page(s)  
LINE COUNT: 12769  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Newly identified Olfactory G protein-coupled receptors (ORs), and the genes and cDNA encoding said receptors are described. Specifically, G protein-coupled receptors active in olfactory signaling, and the genes and cDNA encoding the same, are described, along with methods for isolating such genes and for isolating and expressing such receptors. Methods for representing olfactory perception of a particular odorant in a mammal are also described, as are methods for generating novel molecules or combinations of molecules that elicit a predetermined odor perception in a mammal, and methods for simulating one or more odors. Further, methods for stimulating or blocking odor perception in a mammal are also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L31 ANSWER 5 OF 16 USPATFULL on STN

ACCESSION NUMBER: 2003:78528 USPATFULL  
TITLE: T1R taste receptors and genes encoding same  
INVENTOR(S): Adler, Jon Elliot, San Diego, CA, UNITED STATES  
Li, Xiaodong, San Diego, CA, UNITED STATES  
Staszewski, Lena, San Diego, CA, UNITED STATES  
O'Connell, Shawn, Encinitas, CA, UNITED STATES  
Zozulya, Sergey, San Diego, CA, UNITED STATES  
PATENT ASSIGNEE(S): Senomyx, Inc., La Jolla, CA (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003054448	A1	20030320
APPLICATION INFO.:	US 2002-35045	A1	20020103 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-259227P	20010103 (60)
	US 2001-284547P	20010419 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	PILLSBURY WINTHROP, LLP, P.O. BOX 10500, MCLEAN, VA, 22102	
NUMBER OF CLAIMS:	234	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	5 Drawing Page(s)	
LINE COUNT:	4429	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Newly identified mammalian taste-cell-specific G protein-coupled receptors, and the genes and cDNA encoding said receptors are described. Specifically, T1R G protein-coupled receptors active in taste signaling, and the genes and cDNA encoding the same, are described, along with methods for isolating such genes and for isolating and expressing such receptors. Methods for representing taste perception of a particular taste stimulus in a mammal are also described, as are methods for generating novel molecules or combinations of molecules that elicit a predetermined taste perception in a mammal, and methods for simulating one or more tastes. Further, methods for stimulating or blocking taste perception in a mammal are also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L31 ANSWER 6 OF 16 USPATFULL on STN  
ACCESSION NUMBER: 2003:57481 USPATFULL  
TITLE: Mammalian sweet taste receptors  
INVENTOR(S): Zuker, Charles S., San Diego, CA, UNITED STATES  
Nelson, Gregory A., San Diego, CA, UNITED STATES  
Chandrashekhar, Jayaram, San Diego, CA, UNITED STATES  
Zhang, Yifeng, La Jolla, CA, UNITED STATES  
Ryba, Nicholas J.P., Bethesda, MD, UNITED STATES  
Hoon, Mark A., Kensington, MD, UNITED STATES  
PATENT ASSIGNEE(S): The Regents of the University of California, Oakland, CA, UNITED STATES, 94607-5200 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003040045	A1	20030227
APPLICATION INFO.:	US 2001-927315	A1	20010810 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-302898P	20010703 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO	

CENTER, EIGHTH FLOOR, SAN FRANCISCO, CA, 94111-3834

NUMBER OF CLAIMS: 54  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 7 Drawing Page(s)  
LINE COUNT: 4801

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides isolated nucleic acid and amino acid sequences of sweet taste receptors comprising two heterologous G-protein coupled receptor polypeptides from the T1R family of sensory G-protein coupled receptors, antibodies to such receptors, methods of detecting such nucleic acids and receptors, and methods of screening for modulators of sweet taste receptors.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L31 ANSWER 7 OF 16 USPATFULL on STN

ACCESSION NUMBER: 2003:10649 USPATFULL  
TITLE: T1R taste receptors and genes encoding same  
INVENTOR(S): Adler, Jon Elliot, San Diego, CA, UNITED STATES  
Zozulya, Sergey, San Diego, CA, UNITED STATES  
Li, Xiadong, San Diego, CA, UNITED STATES  
O'Connell, Shawn, Encinitas, CA, UNITED STATES  
Staszewski, Lena, San Diego, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003008344	A1	20030109
APPLICATION INFO.:	US 2001-799629	A1	20010307 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-187546P	20000307 (60)
	US 2000-195536P	20000407 (60)
	US 2000-209840P	20000606 (60)
	US 2000-214213P	20000623 (60)
	US 2000-226448P	20000817 (60)
	US 2001-259227P	20010103 (60)

DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: Pillsbury Winthrop LLP, Intellectual Property Group,  
East Tower, Ninth Floor, 1100 New York Avenue, N.W.,  
Washington, DC, 20005-3918

NUMBER OF CLAIMS: 234  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 1 Drawing Page(s)  
LINE COUNT: 4237

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Newly identified mammalian taste-cell-specific G protein-coupled receptors, and the genes and cDNA encoding said receptors are described. Specifically, T1R G protein-coupled receptors active in taste signaling, and the genes and cDNA encoding the same, are described, along with methods for isolating such genes and for isolating and expressing such receptors. Methods for representing taste perception of a particular tastant in a mammal are also described, as are methods for generating novel molecules or combinations of molecules that elicit a predetermined taste perception in a mammal, and methods for simulating one or more tastes. Further, methods for stimulating or blocking taste perception in a mammal are also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L31 ANSWER 8 OF 16 USPATFULL on STN

ACCESSION NUMBER: 2003:246823 USPATFULL  
TITLE: System for cell-based screening

INVENTOR(S) : Dunlay, R. Terry, Pittsburgh, PA, United States  
Taylor, D. Lansing, Pittsburgh, PA, United States  
PATENT ASSIGNEE(S) : Cellomics, Inc., Pittsburgh, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6620591	B1	20030916
APPLICATION INFO.:	US 1999-293210		19990416 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1997-810983, filed on 27 Feb 1997, now patented, Pat. No. US 5989835		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Le, Long V.		
ASSISTANT EXAMINER:	Gabel, Gailene R.		
LEGAL REPRESENTATIVE:	McDonnell Boehnen Hulbert & Berghoff, Harper, David S.		
NUMBER OF CLAIMS:	28		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	19 Drawing Figure(s); 10 Drawing Page(s)		
LINE COUNT:	1027		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to an optical system for determining the distribution, environment, or activity of fluorescently labeled reporter molecules in cells for the purpose of screening large numbers of compounds for specific biological activity. The invention involves providing cells containing fluorescent reporter molecules in an array of locations and scanning numerous cells in each location with a fluorescent microscope, converting the optical information into digital data, and utilizing the digital data to determine the distribution, environment or activity of the fluorescently labeled reporter molecules in the cells. The array of locations may be an industry standard 96 well or 384 well microtiter plate or a microplate which is a microplate having a cells in a micropatterned array of locations. The invention includes apparatus and computerized method for processing, displaying and storing the data.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L31 ANSWER 9 OF 16 USPATFULL on STN  
ACCESSION NUMBER: 2003:148855 USPATFULL  
TITLE: System for cell-based screening  
INVENTOR(S) : Dunlay, R. Terry, Pittsburgh, PA, United States  
Taylor, D. Lansing, Pittsburgh, PA, United States  
PATENT ASSIGNEE(S) : Cellomics, Inc., Pittsburgh, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6573039	B1	20030603
APPLICATION INFO.:	US 2000-650937		20000829 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1999-293209, filed on 16 Apr 1999, now abandoned Division of Ser. No. US 1997-810983, filed on 27 Feb 1997, now patented, Pat. No. US 5989835		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Le, Long V.		
ASSISTANT EXAMINER:	Padmanabhan, Kartic		
LEGAL REPRESENTATIVE:	McDonnell Boehnen Hulbert & Berghoff, Harper, David S.		
NUMBER OF CLAIMS:	15		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	10 Drawing Figure(s); 10 Drawing Page(s)		
LINE COUNT:	992		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to an optical system for determining the distribution, environment, or activity of fluorescently labeled reporter molecules in cells for the purpose of screening large numbers of compounds for specific biological activity. The invention involves providing cells containing fluorescent reporter molecules in an array of locations and scanning numerous cells in each location with a fluorescent microscope, converting the optical information into digital data, and utilizing the digital data to determine the distribution, environment or activity of the fluorescently labeled reporter molecules in the cells. The array of locations may be an industry standard 96 well or 384 well microtiter plate or a microplate which is a microplate having a cells in a micropatterned array of locations. The invention includes apparatus and computerized method for processing, displaying and storing the data.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L31 ANSWER 10 OF 16 USPATFULL on STN

ACCESSION NUMBER: 2002:287561 USPATFULL

TITLE: T1R hetero-oligomeric taste receptors

INVENTOR(S): Adler, Jon Elliot, San Diego, CA, UNITED STATES

Li, Xiaodong, San Diego, CA, UNITED STATES

Staszewski, Lena, San Diego, CA, UNITED STATES

Xu, Hong, San Diego, CA, UNITED STATES

Echeverri, Fernando, Chula Vista, CA, UNITED STATES

NUMBER	KIND	DATE
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PATENT INFORMATION: US 2002160424 A1 20021031

APPLICATION INFO.: US 2001-897427 A1 20010703 (9)

NUMBER	DATE
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PRIORITY INFORMATION: US 2001-280606P 20010330 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: PILLSBURY WINTHROP, LLP, P.O. BOX 10500, MCLEAN, VA, 22102

NUMBER OF CLAIMS: 99

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 6 Drawing Page(s)

LINE COUNT: 3201

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Newly identified mammalian taste-cell-specific G protein-coupled receptors which function as hetero-oligomeric complexes in the sweet taste transduction pathway, and the genes and cDNA encoding said receptors are described. Specifically, T1R G protein-coupled receptors active in sweet taste signaling as hetero-oligomeric complexes, and the genes and cDNA encoding the same, are described, along with methods for isolating such genes and for isolating and expressing such receptors. Methods for identifying putative taste modulating compounds using such hetero-oligomeric complexes also described, as is a novel surface expression facilitating peptide useful for targeting integral plasma membrane proteins to the surface of a cell.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L31 ANSWER 11 OF 16 USPATFULL on STN

ACCESSION NUMBER: 2002:243087 USPATFULL

TITLE: Receptor fingerprinting, sensory perception, and biosensors of chemical sensants

INVENTOR(S): Stryer, Lubert, Stanford, CA, UNITED STATES

Zozulya, Sergey, San Diego, CA, UNITED STATES

PATENT ASSIGNEE(S): Senomyx, Inc., La Jolla, CA, UNITED STATES (U.S.)

corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002132273	A1	20020919
APPLICATION INFO.:	US 2001-886055	A1	20010622 (9)

  

	NUMBER	DATE	
PRIORITY INFORMATION:	US 2000-213812P	20000622 (60)	
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	PILLSBURY WINTHROP LLP, 1600 TYSONS BOULEVARD, MCLEAN, VA, 22102		
NUMBER OF CLAIMS:	22		
EXEMPLARY CLAIM:	1		
LINE COUNT:	2854		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The use of sensory G protein-coupled receptors that recognize chemical sensants, particularly those involving olfactory and taste receptors; polypeptide fragments and mutants thereof; classes of such receptors; polynucleotides encoding such receptors, fragments and mutants thereof, and representatives of receptor classes; genetic vectors including such polynucleotides; and cells and non-human organisms engineered to express such receptor complexes, fragments and mutants of an olfactory or taste receptor, and representatives of receptor classes to simulate sensory perception of odorants and tastants is described. The use of such products as a biosensor or a component thereof to detect, identify, measure, or otherwise process the event of binding between the receptor and its cognate ligand (i.e., chemical sensant) is also described. The invention has application, for example, in the design and formulation of odorant and tantant compositions.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L31 ANSWER 12 OF 16 USPATFULL on STN  
ACCESSION NUMBER: 2002:178763 USPATFULL  
TITLE: T2R taste receptors and genes encoding same  
INVENTOR(S): Adler, Jon Elliot, San Diego, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002094551	A1	20020718
APPLICATION INFO.:	US 2001-825882	A1	20010405 (9)

  

	NUMBER	DATE	
PRIORITY INFORMATION:	US 2000-195532P	20000407 (60)	
	US 2000-247014P	20001113 (60)	
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	PILLSBURY WINTHROP LLP, 1600 TYSONS BOULEVARD, MCLEAN, VA, 22102		
NUMBER OF CLAIMS:	137		
EXEMPLARY CLAIM:	1		
LINE COUNT:	3790		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Newly identified mammalian taste-cell-specific G Protein-Coupled Receptors and the genes encoding said receptors are described. Specifically, T2R taste G Protein-Coupled Receptors that are believed to be involved in bitter taste sensation, and the genes encoding the same, are described, along with methods for isolating such genes and for isolating and expressing such receptors. Methods for representing taste perception of a particular tantant in a mammal are also described, as

are methods for generating a novel molecules or combinations of molecules that elicit a predetermined taste perception in a mammal, and methods for simulating one or more tastes.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L31 ANSWER 13 OF 16 USPATFULL on STN

ACCESSION NUMBER: 2002:168052 USPATFULL

TITLE: System for cell-based screening

INVENTOR(S): Giuliano, Kenneth, 351 Hawthorne Rd., Pittsburgh, PA, United States 15209  
Kapur, Ravi, 2942 E. Bardoneer Rd., Gibsonia, PA, United States 15044

NUMBER KIND DATE

PATENT INFORMATION: US 6416959 B1 20020709

APPLICATION INFO.: US 2000-513783 20000225 (9)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1999-430656, filed on 29 Oct 1999 Continuation-in-part of Ser. No. US 1999-398965, filed on 17 Sep 1999 Continuation-in-part of Ser. No. US 1999-352171, filed on 12 Jul 1999 Continuation-in-part of Ser. No. US 1998-31271, filed on 27 Feb 1998 Continuation-in-part of Ser. No. US 1997-810983, filed on 27 Feb 1997, now patented, Pat. No. US 5989835

NUMBER DATE

PRIORITY INFORMATION: US 1999-122152P 19990226 (60)  
US 1999-123399P 19990308 (60)  
US 1999-151797P 19990831 (60)  
US 1999-168408P 19991201 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: GRANTED

PRIMARY EXAMINER: Chin, Christopher L.

ASSISTANT EXAMINER: Cook, Lisa V

NUMBER OF CLAIMS: 17

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 63 Drawing Figure(s); 49 Drawing Page(s)

LINE COUNT: 10972

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides systems, methods, screens, reagents and kits for optical system analysis of cells to rapidly determine the distribution, environment, or activity of fluorescently labeled reporter molecules in cells for the purpose of screening large numbers of compounds for those that specifically affect particular biological functions.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L31 ANSWER 14 OF 16 MEDLINE on STN

ACCESSION NUMBER: 2002082649 MEDLINE

DOCUMENT NUMBER: 21669057 PubMed ID: 11809860

TITLE: Real-time visualization of a fluorescent G(alpha)(s): dissociation of the activated G protein from plasma membrane.

AUTHOR: Yu Jiang-Zhou; Rasenick Mark M

CORPORATE SOURCE: Department of Physiology and Biophysics, University of Illinois at Chicago, College of Medicine, Chicago, Illinois 60612-7342, USA.

CONTRACT NUMBER: AG15482 (NIA)

MH39595 (NIMH)

MH57391 (NIMH)

SOURCE: MOLECULAR PHARMACOLOGY, (2002 Feb) 61 (2) 352-9.  
Journal code: 0035623. ISSN: 0026-895X.

PUB. COUNTRY: United States  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 200202  
ENTRY DATE: Entered STN: 20020128  
Last Updated on STN: 20020208  
Entered Medline: 20020207

AB To study behavior of activated G(alpha)s in living cells, green fluorescent protein (GFP) was inserted within the internal amino acid sequence of G(alpha)s to generate a G(alpha)s-GFP fusion protein. The fusion protein maintained a bright green fluorescence and was identified by immunoblotting with antibodies against G(alpha)s or GFP. The cellular distribution of G(alpha)s-GFP was similar to that of endogenous G(alpha)s. G(alpha)s-GFP was tightly coupled to the beta adrenergic receptor to activate the G(alpha)s effector, adenylyl cyclase. Activation of G(alpha)s-GFP by cholera toxin caused a gradual displacement of the fusion protein from the plasma membrane throughout the cytoplasm in living cells. Unlike the slow release of G(alpha)s-GFP from the membrane induced by cholera toxin, the beta-adrenergic agonist isoproterenol caused a rapid partial release of the fusion protein into the cytoplasm. At 1 min after treatment with isoproterenol, the extent of G(alpha)s-GFP release from plasma membrane sites was maximal; however, insertion of G(alpha)s-GFP at other membrane sites occurred during the same time period. Translocation of G(alpha)s-GFP fusion protein induced by isoproterenol suggested that the internalization of G(alpha)s might play a role in signal transduction by interacting with effector molecules and cytoskeletal elements at multiple cellular sites.

L31 ANSWER 15 OF 16 MEDLINE on STN  
ACCESSION NUMBER: 2001517562 MEDLINE  
DOCUMENT NUMBER: 21448679 PubMed ID: 11564766  
TITLE: Cutting edge: Differential regulation of chemoattractant receptor-induced degranulation and chemokine production by receptor phosphorylation.  
AUTHOR: Ahamed J; Haribabu B; Ali H  
CORPORATE SOURCE: Department of Pathology, School of Dental Medicine, University of Pennsylvania, 4010 Locust Street, Philadelphia, PA 19104, USA.  
CONTRACT NUMBER: HL-54166 (NHLBI)  
HL-63372 (NHLBI)  
SOURCE: JOURNAL OF IMMUNOLOGY, (2001 Oct 1) 167 (7) 3559-63.  
Journal code: 2985117R. ISSN: 0022-1767.  
PUB. COUNTRY: United States  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals  
ENTRY MONTH: 200112  
ENTRY DATE: Entered STN: 20010924  
Last Updated on STN: 20020122  
Entered Medline: 20011204

AB Phosphorylation of G protein-coupled receptors and the subsequent recruitment of beta-arrestin play an important role in desensitization of receptor-mediated responses, including degranulation in leukocytes. In this study, we report that receptor phosphorylation also provides a stimulatory signal for CCR ligand 2 (CCL2) production. C3a stimulated degranulation in a basophilic leukemia RBL-2H3 cell expressing wild-type C3aR or a phosphorylation-deficient mutant (DeltaST-C3aR). In contrast, C3a caused CCL2 production only in C3aR but not DeltaST-C3aR cells. Furthermore, overexpression of G

protein-coupled receptor kinase 2 resulted in enhancement of both ligand-induced receptor phosphorylation and CCL2 production but inhibition of degranulation. Agonist activation of C3aR, but not DeltaST-C3aR, led to the **translocation** of green **fluorescent** protein tagged beta-arrestin 2 from the **cytoplasm** to the **plasma membrane**. These data demonstrate that receptor phosphorylation, which provides a turn off **signal** for degranulation, is essential for CCL2 production.

L31 ANSWER 16 OF 16 USPATFULL on STN  
ACCESSION NUMBER: 1999:150938 USPATFULL  
TITLE: System for cell-based screening  
INVENTOR(S): Dunlay, R. Terry, Pittsburgh, PA, United States  
Taylor, D. Lansing, Pittsburgh, PA, United States  
PATENT ASSIGNEE(S): Cellomics, Inc., Pittsburgh, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5989835		19991123
APPLICATION INFO.:	US 1997-810983		19970227 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Chin, Christopher L.		
ASSISTANT EXAMINER:	Nguyen, Bao-Thuy L.		
LEGAL REPRESENTATIVE:	Harper, David S. McDonnell Boehnen Hulbert & Berghoff		
NUMBER OF CLAIMS:	8		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	10 Drawing Figure(s); 10 Drawing Page(s)		
LINE COUNT:	875		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
AB The invention relates to an optical system for determining the distribution, environment, or activity of fluorescently labeled reporter molecules in cells for the purpose of screening large numbers of compounds for specific biological activity. The invention involves providing cells containing fluorescent reporter molecules in an array of locations and scanning numerous cells in each location with a fluorescent microscope, converting the optical information into digital data, and utilizing the digital data to determine the distribution, environment or activity of the fluorescently labeled reporter molecules in the cells. The array of locations may be an industry standard 96 well or 384 well microtiter plate or a microplate which is a microplate having a cells in a micropatterned array of locations. The invention includes apparatus and computerized method for processing, displaying and storing the data.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L Number	Hits	Search Text	DB	Time stamp
1	3	fluores\$ same (cytoplasm near3 membrane) same GTP	USPAT; US-PPGPUB; EPO; DERWENT	2003/09/29 18:58
2	161	fluores\$ same (cytoplasm near3 membrane)	USPAT; US-PPGPUB; EPO; DERWENT	2003/09/29 17:58
3	531352	+-	USPAT; US-PPGPUB; EPO; DERWENT	2003/09/29 17:58
5	71	(fluores\$ same (cytoplasm near3 membrane) same (signal or intensity or change or alter)) and (GTP or Rho or tyrosine)	USPAT; US-PPGPUB; EPO; DERWENT	2003/09/29 18:00
6	27	((fluores\$ same (cytoplasm near3 membrane) same (signal or intensity or change or alter)) and (GTP or Rho or tyrosine)) and (distrubution or translocat\$)	USPAT; US-PPGPUB; EPO; DERWENT	2003/09/29 18:00
4	95	fluores\$ same (cytoplasm near3 membrane) same (signal or intensity or change or alter)	USPAT; US-PPGPUB; EPO; DERWENT	2003/09/29 18:05
7	1	("5997866").PN.	USPAT; EPO	2003/09/29 19:03
8	1	("5732150").PN.	USPAT; EPO	2003/09/29 19:11
10	2	fluores\$ same (scan or imag\$) same (cytoplasm near3 membrane)	USPAT; DERWENT	2003/09/29 19:13
11	2	fluores\$ same (scan or imag\$) same (cytoplasm near3 membrane)	USPAT; EPO; DERWENT	2003/09/29 19:13
12	2	fluores\$ same (scan or imag\$) same (cytoplasm near3 membrane)	USPAT; EPO; DERWENT	2003/09/29 19:14
13	4	fluores\$ same (scan or imag\$) same (cytoplasm near5 membrane)	USPAT; EPO; DERWENT	2003/09/29 19:27
14	15	fluores\$ same (scan or imag\$ or cytomet\$) same (cytoplasm near5 membrane)	USPAT; EPO; DERWENT	2003/09/29 19:27
15	2	(fluores\$ same (scan or imag\$ or cytomet\$) same (cytoplasm near5 membrane) ) and GTP	USPAT; EPO; DERWENT	2003/09/29 19:29
16	19	localiz\$ same (cytoplasm near4 membrane) same fluores\$	USPAT; EPO; DERWENT	2003/09/29 19:30
17	1	(localiz\$ same (cytoplasm near4 membrane) same fluores\$) and GTP and tyrosin	USPAT; EPO; DERWENT	2003/09/29 19:31
18	2	GTP and Tyrosin and fluores\$ and (scan or imag\$) and (cytoplasm near5 membrane)	USPAT; EPO; DERWENT	2003/09/29 19:33
21	33	GTP and tyrosine and fluores\$ and (scan or imag\$) and (cytoplasm near3 membrane)	USPAT; EPO; DERWENT	2003/09/29 19:35